Author Index of Volume 181

Adachi, G., 469
Adenwalla, S., 153
Ali, N., 233, 281, 287, 305
Allen, J. W., 327
Almeida, T., 205
Andoh, Y., 111
Arko, A. J., 161
Aylesworth, K. D., 409, 431

Baran, A., 249
Barnhart, D., 191
Bartlett, R. J., 161
Beaudry, B. J., 463
Beitz, J. V., 49
Benedict, U., 1
Beyermann, W. P., 77, 191
Bogomolov, S. S., 275
Brandow, B., 377
Brandt, E. H., 339
Brück, E., 179, 205
Brundage, R. T., 49
Burns, C., 191
Buzdin, A. I., 357

Canfield, P. C., 77, 161, 191, 211, 369
Cao, B.-P., 511, 515
Chen, G., 503
Chen, Q., 321
Chen, Y.-H., 495
Cheng, S.-B., 457
Cichorek, T., 299
Cooper, B. R., 83
Cox, D. L., 327

Dabos-Seignon, S., 1
Dancausse, J. P., 1
Das, B. N., 409
de Boer, F. R., 179
De Long, L. E., 311
Del Cul, G. D., 63

Edelson, M. C., 57
Eick, H. A., 445
Elam, W. T., 431
Eyring, L., 477, 483

Fabrowski, R., 267, 299
Fisk, Z., 77, 161, 191, 211, 369
Folcik, L., 249
Franse, J. J. M., 95, 267
Fujii, H., 111

Gensini, M., 1
Gering, E., 1
Gerward, L., 1
Ghamaty, S., 327
Gibson, J. K., 23
Goldstone, J., 191
Goodman, G. L., 33
Gschneidner, Jr., K. A., 463

Haire, R. G., 1, 63, 503
Hamzic, A., 197
Han, S. H., 463
Harris, V. G., 409, 431
Havela, L., 179, 205
Heathman, S., 1
Henkie, Z., 267, 299
Hill, P., 281, 305
Hodorowicz, E., 445
Hodorowicz, S. A., 445
Huber, J. G., 257
Hulliger, F., 489
Hundley, M. F., 77, 191, 369

Iki, K., 71

Joyce, J. J., 161

Kagayama, T., 185
Kang, J.-S., 327
Kang, Z. C., 477, 483
Kayzel, F. E., 95
Kern, S., 225
Ketterson, J. B., 153
Kioussis, N., 83
Klamut, J., 299
Komatsubara, T., 71, 185
Koon, N. C., 409, 431
Kwei, G. H., 191

Lacerda, A., 77, 191
Lalvani, S., 233
Lawrence, J., 161
Lawson, A. C., 191
Lee, B. W., 135, 327
Levy, M., 153
Li, F., 521
Li, F.-Y., 457, 527
Li, J.-H., 457, 521, 527
Li, T. Z., 477
Lim, S. P., 83
Lin, S. W., 153
Liu, L. Z., 327
Loong, C.-K., 225, 241
Lopez de la Torre, M. A., 171
Lu, W.-Q., 527
Luo, H., 1
Lynn, J. W., 419

Maple, M. B., 135, 171, 327
Markowski, P. J., 267
Marquina, C., 95
Maślanka, R., 267
Mōri, N., 71, 185
Murray, G. M., 57
Mydlarz, T., 249

Naegele, J. R., 205
Nagao, K., 469
Neumeier, J. J., 135
Ng, K.-W., 321
Nieva, G., 135

Okita, H., 293
Olsen, H. S., 1
Ōnuki, Y., 71, 185, 293
Oomi, G., 71, 185, 219, 293

Paulius, L. M., 135
Peterson, J. R., 63, 503
Piratinskaya, J. J., 275

Qin, L., 515

Radwanski, R. J., 95
Reimer, V. A., 275
Riseborough, P., 211
Rogl, P., 311

Sakaguchi, H., 469
Sanchez-Castro, C., 83
Sarma, B. K., 153
Seaman, C. L., 135, 327
Sechovsky, V., 179, 205
Sellmyer, D. J., 397
Severing, A., 211
Shaheen, S. A., 305
Sheng, Q. G., 83
Smith, J. L., 161
Soderholm, L., 13, 225, 241
Sparn, G., 77, 191, 197
Stump, N. A., 503
Suenaga, K., 219
Suski, W., 249
Szytuła, A., 123

Takabatake, T., 111
Takahashi, H., 71, 185
Thompson, J. D., 77, 161, 191, 197, 211, 369
Tondiglia, V., 311
Torikachvili, M. S., 171, 327

Umehara, I., 293
Uwatoko, Y., 71, 293

van Sprang, M., 267
Verhoef, R., 95
Vetsch, H., 489
Vieira, S., 171
Villar, R., 171

Wang, S.-H., 495, 511, 515
Wang, X.-D., 515
Weeks, S. J., 57
Weston, A., 233
Willis, F., 233, 281, 287
Wills, J. M., 83
Wiśniewski, P., 267, 299
Wochowski, K., 249

Xu, X., 305
Xu, X.-L., 489

Zhang, X., 281
Zhang, X.-Q., 521
Zhao, X.-H., 495, 511, 515
Zinoviev, V. E., 275

Subject Index of Volume 181

Absorption spectra
  effects of pressure on the luminescence, Raman and absorption spectra of $^{248}CmCl_3$, 63
Actinides
  actinide compounds under pressure, 1
  $Ce_3Bi_4Pt_3$ and hybridization gap physics, 369
  magnetic properties of 1:2:2 rare-earth and actinides intermetallics, 123
  the electronic structure of actinide dioxides, 33
  understanding and predicting rare earth and actinide correlated electron magnetism, 83
Aluminium
  a study of the properties of the active sites by carbon disulphide or thiophene poisoning for Pt–Dy/γ-Al_2O_3 catalysts, 457
  anisotropic hybridization in some cerium and uranium compounds with hexagonal ZrNiAl-type structure, 111
  high resolution photoemission on UPdSn and UNiAl, 205
  magnetic properties and activities of Pt–Tb/γ-Al_2O_3 re-forming catalysts, 521
  structure and magnetic properties of the $UFe_xCu_{4-x}Al_8$ system, 249
Americium
  5f state luminescence from Am^{3+} at moderate loading in a heavy metal fluoride glass, 49
  high-temperature fluorination studies of uranium, neptunium, plutonium and americium, 23
Anderson model
  inconsistencies with the single-impurity Anderson model in photoelectron spectra of cerium heavy fermion compounds, 161
Anisotropy
  anisotropy of the physical properties of uniaxial antiferromagnetic USb_2, 267
  magnetic anisotropy in UTX compounds, 179
Antimony
  anisotropy of the physical properties of uniaxial antiferromagnetic USb_2, 267
  doping and pressure study of $U_3Sb_4Pt_3$, 77

Barium
  a crystal field analysis of the energy level splitting for erbium in Er-$Ba_2Cu_3O_7$, 225
  effect of oxygen deficiency on the thermal expansion of high T_C superconductor $YBa_2Cu_3O_{7-\delta}$, 219
  electrodeposition of YBaCuO and Er-BaCuO superconductor precursor films, 233
  hybridization, hole localization, and pair breaking in the high T_C superconducting system $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$, 135
  the Yb_2O_3– and Lu_2O_3–BaO(BaO($BaCO_3$)–CuO systems: compounds and phase compatibilities in air at 940–980 °C, 445
Bismuth
  $Ce_3Bi_4Pt_3$ and hybridization gap physics, 369
  gap-like magnetic excitation in the neutron-scattering response of $Ce_3Bi_4Pt_3$, 211
  low temperature scanning tunneling spectroscopy of $Bi_2Sr_2CaCu_2O_8$, 321
Boron
  pressure dependence of ferromagnetic ordering of ($Ce_{1-x}La_x$) Rh_3B_2 compounds, 257
  structural properties and anomalous composition dependences of the superconducting transition temperature of RE(Rh,Co)$_4B_4$ alloys (RE ≡ Y, Er), 311

Calcium
  low temperature scanning tunneling spectroscopy of $Bi_2Sr_2CaCu_2O_8$, 321

Carbon
a study of the properties of the active sites by carbon disulphide or thiophene poisoning for Pt–Dy/δ-Al_2O_3 catalysts, 457
Catalysts
a study of the properties of the active sites by carbon disulphide or thiophene poisoning for Pt–Dy/δ-Al_2O_3 catalysts, 457
effect of heavy rare earths on the catalytic and magnetic properties of platinum re-forming catalysts, 527
magnetic properties and activities of Pt–Tb/δ-Al_2O_3 re-forming catalysts, 521
Cerium
anisotropic hybridization in some cerium and uranium compounds with hexagonal ZrNiAl-type structure, 111
$Ce_3Bi_4Pt_3$ and hybridization gap physics, 369
effect of pressure on the T^2-dependent electrical resistivity of the heavy-fermion compound $CeInCu_2$, 185
effect of pressure on the thermal expansion coefficients of $CeCu_2$ single crystals, 293
gap-like magnetic excitation in the neutron-scattering response of $Ce_3Bi_4Pt_3$, 211
inconsistencies with the single-impurity Anderson model in photoelectron spectra of cerium heavy fermion compounds, 161
pressure dependence of ferromagnetic ordering of $(Ce_{1-x}La_x)$ Rh_3B_2 compounds, 257
structural, electrical and magnetic properties of $La_xCe_{1-x}Si$, 305
surface profiles and substructures in CeO_2 and PrO_x, 483
Chlorine
effects of pressure on the luminescence, Raman and absorption spectra of $^{248}CmCl_3$, 63
Cobalt
structural properties and anomalous composition dependences of the superconducting transition temperature of $RE(Rh,Co)_4B_4$ alloys (RE≡Y, Er), 311
Colloidal particles
the preparation and characterization of hydroxycarbonate colloidal particles of individual and mixed rare earth elements, 477
Copper
a crystal field analysis of the energy level splitting for erbium in Er-$Ba_2Cu_3O_7$, 225
crystal field excitations in RE_2CuO_4 (RE≡Pr, Nd), 241
effect of oxygen deficiency on the thermal expansion of high T_C superconductor $YBa_2Cu_3O_{7-\delta}$, 219
effect of oxygen deficiency on transport properties of $Nd_{1.85}Th_{0.15}CuO_{4-\delta}$, 229
effect of pressure on the T^2-dependent electrical resistivity of the heavy-fermion compound $CeInCu_2$, 185
effect of pressure on the thermal expansion coefficients of $CeCu_2$ single crystals, 293
electrodeposition of YBaCuO and Er-BaCuO superconductor precursor films, 233
hybridization, hole localization, and pair breaking in the high T_C superconducting system $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$, 135
low temperature scanning tunneling spectroscopy of $Bi_2Sr_2CaCu_2O_8$, 321
structure and magnetic properties of the $UFe_xCu_{4-x}Al_8$ system, 249
the Yb_2O_3– and Lu_2O_3–BaO($BaCO_3$)–CuO systems: compounds and phase compatibilities in air at 940–980 °C, 445
Crystal field
a crystal field analysis of the energy level splitting for erbium in Er-$Ba_2Cu_3O_7$, 225
crystal field excitations in RE_2CuO_4 (RE≡Pr, Nd), 241
the electronic structure of actinide dioxides, 33
Curium
curium ($Z=96$) as a probe for studying high T_C superconductivity, 13
effects of pressure on the luminescence, Raman and absorption spectra of $^{248}CmCl^3$, 63
Cyanides
on the rare earth cyanides $A^+LnT^{II}(CN)_6 \cdot nH_2O$, A≡K, Rb, Tl, NH_4, T≡Fe(Ru,Os), 489

Doping
doping and pressure study of $U_3Sb_4Pt_3$, 77
Dysprosium
a study of the properties of the active sites by carbon disulphide or thiophene poisoning for Pt–Dy/δ-Al_2O_3 catalysts, 457
magnetic susceptibility and its anomalies in single-crystal and polycrystalline gadolinium, terbium and dysprosium in the temperature range 300–800 K, 275

Electrical resistivity
effect of pressure on the T^2-dependent electrical resistivity of the heavy-fermion compound $CeInCu_2$, 185
Electron localization
the physics of Mott electron localization, 377
Electronic structure
the electronic structure of actinide dioxides, 33
Erbium
a crystal field analysis of the energy level splitting for erbium in Er-$Ba_2Cu_3O_7$, 225
effect of spin slip structures on the resistivity of erbium and holmium, 287
electrodeposition of YBaCuO and Er-BaCuO superconductor precursor films, 233
preparation of the metastable high pressure γ-R_2S_3 phase (R≡Er, Tm, Yb and Lu) by mechanical milling, 463
structural properties and anomalous composition dependences of the superconducting transition temperature of $RE(Rh,Co)_4B_4$ alloys (RE≡Y, Er), 311
Europium
study of the phase behavior of Eu_2O_3 under pressure via luminescence of Eu^{3+}, 503
synthesis and structure of $AEuI_3$ (A≡Rb, Cs) and AEu_2I_5 (A≡K, Rb, Cs), 511

Fermion
inconsistencies with the single-impurity Anderson model in photoelectron spectra of cerium heavy fermion compounds, 161
Fluoride
5f state luminescence from Am^{3+} at moderate loading in a heavy metal fluoride glass, 49
Flux line lattice
the flux line lattice in high T_C superconductors, 339

Gadolinium
magnetic susceptibility and its anomalies in single-crystal and polycrystalline gadolinium, terbium and dysprosium in the temperature range 300–800 K, 275
Gallium
possible heavy-fermion behavior and field-induced transitions in new R–Pt–Ga compounds, 191
Gap physics
$Ce_3Bi_4Pt_3$ and hybridization gap physics, 369
Glass
5f state luminescence from Am^{3+} at moderate loading in a heavy metal fluoride glass, 49
magnetization and thermoremanent magnetization of $Tb_2Mo_2O_7$ and $Y_2Mo_2O_7$ spin glasses, 281

Helium
^3He and ^4He from D_2 absorbed in $LaNi_5$, 469
Holmium
effect of spin slip structures on the resistivity of erbium and holmium, 287
Hybridization
anisotropic hybridization in some cerium and uranium compounds with hexagonal ZrNiAl-type structure, 111
$Ce_3Bi_4Pt_3$ and hybridization gap physics, 369
hybridization, hole localization, and pair breaking in the high T_C superconducting system $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$, 135

Indium
effect of pressure on the T^2-dependent electrical resistivity of the heavy-fermion compound $CeInCu_2$, 185
Iodides
valence determination of rare earth elements in rare earth iodides, 515

Iodine
synthesis and structure of $AEuI_3$ (A≡Rb,Cs) and AEu_2I_5 (A≡K, Rb, Cs), 511
synthesis of $TlSm_2I_5$ by a one-step procedure, 495
Iron
correlation between structure and magnetic anisotropy in amorphous Fe–Tb alloy films, 431
on the rare earth cyanides A+-$LnT^{II}(CN)_6 \cdot nH_2O$, A≡K, Rb, Tl, NH_4, T≡Fe(Ru, Os), 489
structure and magnetic properties of the $UFe_xCu_{4-x}Al_8$ system, 249

Lanthanum
^3He and ^4He from D_2 absorbed in $LaNi_5$, 469
on the rare earth cyanides A+-$LnT^{II}(CN)_6 \cdot nH_2O$, A≡K, Rb, Tl, NH_4, T≡Fe(Ru, Os), 489
pressure dependence of ferromagnetic ordering of $(Ce_{1-x}La_x)$ Rh_3B_2 compounds, 257
structural, electrical and magnetic properties of $La_xCe_{1-x}Si$, 305
Luminescence
5f state luminescence from Am^{3+} at moderate loading in a heavy metal fluoride glass, 49
effects of pressure on the luminescence, Raman and absorption spectra of $^{248}CmCl_3$, 63
study of the phase behavior of Eu_2O_3 under pressure via luminescence of Eu^{3+}, 503
Lutetium
preparation of the metastable high pressure γ-R_2S_3 phase (R≡Er, Tm, Yb and Lu) by mechanical milling, 463
the Yb_2O_3– and Lu_2O_3–BaO($BaCO_3$)–CuO systems: compounds and phase compatibilities in air at 940–980 °C, 445

Magnetic anisotropy
correlation between structure and magnetic anisotropy in amorphous Fe–Tb alloy films, 431
Magnetic properties
effect of heavy rare earths on the catalytic and magnetic properties of platinum re-forming catalysts, 527
magnetic properties and activities of Pt–Tb/γ-Al_2O_3 re-forming catalysts, 521
magnetic properties of 1:2:2 rare-earth and actinides intermetallics, 123
magnetic properties of ferimagnetic rare-earth-transition-metal films and multilayers, 409
structural, electrical and magnetic properties of $La_xCe_{1-x}Si$, 305
structure and magnetic properties of the $UFe_xCu_{4-x}Al_8$ system, 249
Magnetism
magnetic anisotropy in UTX compounds, 179
magnetic susceptibility and its anomalies in single-crystal and polycrystalline gadolinium, terbium and dysprosium in the temperature range 300–800 K, 275
magnetism of nanostructured rare earth multilayers and films, 397
two-dimensional behavior of the rare earth ordering in oxide superconductors, 419
Magnetization
high field magnetization of R_2T_{17} compounds, 95
Molybdenum
magnetization and thermoremanent magnetization of $Tb_2Mo_2O_7$ and $Y_2Mo_2O_7$ spin glasses, 281
Mott insulators
the physics of Mott electron localization, 377

Neodymium
crystal field excitations in RE_2CuO_4 (RE≡Pr,Nd), 241
effect of oxygen deficiency on transport properties of $Nd_{1.85}Th_{0.15}CuO_{4-\delta}$, 299
Neptunium
high-temperature fluorination studies of uranium, neptunium, plutonium and amercium, 23
Neutron-scattering
gap-like magnetic excitation in the neutron-scattering response of $Ce_3Bi_4Pt_3$, 211
Nickel
^2He and ^4He from D_2 absorbed in $LaNi_5$, 469

anisotropic hybridization in some cerium and uranium compounds with hexagonal ZrNiAl-type structure, 111
high resolution photoemission on UPdSn and UNiAl, 205
pressure dependence of the Curie temperature in the Kondo lattice compound YbNiSn, 197

Oxides
two-dimensional behavior of the rare earth ordering in oxide superconductors, 419
Oxygen
a crystal field analysis of the energy level splitting for erbium in Er-$Ba_2Cu_3O_7$, 225
a study of the properties of the active sites by carbon disulphide or thiophene poisoning for Pt–Dy/γ-Al_2O_3 catalysts, 457
crystal field excitations in RE_2CuO_4 (RE ≡ Pr,Nd), 241
effect of oxygen deficiency on the thermal expansion of high T_C superconductor $YBa_2Cu_3O_{7-\delta}$, 219
effect of oxygen deficiency on transport properties of $Nd_{1.85}Th_{0.15}CuO_{4-\delta}$, 299
electrodeposition of YBaCuO and Er-BaCuO superconductor precursor films, 233
hybridization, hole localization, and pair breaking in the high T_C superconducting system $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$, 135
low temperature scanning tunneling spectroscopy of $Bi_2Sr_2CaCu_2O_8$, 321
magnetic properties and activities of Pt–Tb/δ-Al_2O_3 re-forming catalysts, 521
magnetization and thermoremanent magnetization of $Tb_2Mo_2O_7$ and $Y_2Mo_2O_7$ spin glasses, 281
study of the phase behavior of Eu_2O_3 under pressure via luminescence of Eu^{3+}, 503
surface profiles and substructures in CeO_2 and PrO_x, 483
the Yb_2O_3– and Lu_2O_3–$BaO(BaCO_3)$–CuO systems: compounds and phase compatibilities in air at 940–980 °C, 445

Palladium
high resolution photoemission on UPdSn and UNiAl, 205
observation of the two-channel quadrupolar Kondo effect in $Y_{1-x}U_xPd_3$, 327
Phase diagrams
superconducting phase diagram of UPt_3, 153
Platinum
a study of the properties of the active sites by carbon disulphide or thiophene poisoning for Pt–Dy/γ-Al_2O_3 catalysts, 457
$Ce_3Bi_4Pt_3$ and hybridization gap physics, 369
doping and pressure study of $U_3Sb_4Pt_3$, 77
effect of heavy rare earths on the catalytic and magnetic properties of platinum re-forming catalysts, 527
gap-like magnetic excitation in the neutron-scattering response of $Ce_3Bi_4Pt_3$, 211
magnetic properties and activities of Pt–Tb/γ-Al_2O_3 re-forming catalysts, 521
possible heavy-fermion behavior and field-induced transitions in new R–Pt–Ga compounds, 191
superconducting phase diagram of UPt_3, 153
Plutonium
high-temperature fluorination studies of uranium, neptunium, plutonium and americium, 23
Prasedymium
hybridization, hole localization, and pair breaking in the high T_C superconducting system $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$, 135
Praseodymium
crystal field excitations in RE_2CuO_4 (RE ≡ Pr,Nd), 241
surface profiles and substructures in CeO_2 and PrO_x, 483
Pressure
actinide compounds under pressure, 1
doping and pressure study of $U_3Sb_4Pt_3$, 77
effect of pressure on the T^2-dependent electrical resistivity of the heavy-fermion compound $CeInCu_2$, 185
effect of pressure on the thermal expansion coefficients of $CeCu_2$ single crystals, 293

effects of pressure on the luminescence, Raman and absorption spectra of $^{248}CmCl_3$, 63
pressure dependence of ferromagnetic ordering of $(Ce_{1-x}La_x)$ Rh_3B_2 compounds, 257
pressure dependence of the Curie temperature in the Kondo lattice compound YbNiSn, 197
study of the phase behavior of Eu_2O_3 under pressure via luminescence of Eu^{3+}, 503
the effect of pressure on the Néel temperature of URu_2Si_2, 71

Resistivity
effect of spin slip structures on the resistivity of erbium and holmium, 287
Rhodium
pressure dependence of ferromagnetic ordering of $(Ce_{1-x}La_x)$ Rh_3B_2 compounds, 257
Ruthenium
the effect of pressure on the Néel temperature of URu_2Si_2, 71

Samarium
synthesis of $TlSm_2I_5$ by a one-step procedure, 495
Silicon
structural, electrical and magnetic properties of $La_xCe_{1-x}Si$, 305
the effect of pressure on the Néel temperature of URu_2Si_2, 71
Spectroscopy
determination of uranium isotopes in a complex matrix by optical spectroscopy, 57
inconsistencies with the single-impurity Anderson model in photoelectron spectra of cerium heavy fermion compounds, 161
low temperature scanning tunneling spectroscopy of $Bi_2Sr_2CaCu_2O_8$, 321
Strontium
low temperature scanning tunneling spectroscopy of $Bi_2Sr_2CaCu_2O_8$, 321
Structure
actinide compounds under pressure, 1
correlation between structure and magnetic anisotropy in amorphous Fe–Tb alloy films, 431
effect of spin slip structures on the resistivity of erbium and holmium, 287
structural, electrical and magnetic properties of $La_xCe_{1-x}Si$, 305
structural properties and anomalous composition dependences of the superconducting transition temperature of $RE(Rh,Co)_4B_4$ alloys (RE≡Y, Er), 311
structure and magnetic properties of the $UFe_xCu_{4-x}Al_8$ system, 249
surface profiles and substructures in CeO_2 and PrO_x, 483
synthesis and structure of $AEuI_3$ (A≡Rb, Cs) and AEu_2I_5 (A≡K, Rb, Cs), 511
Sulphur
preparation of the metastable high pressure γ-R_2S_3 phase (R≡Er, Tm, Yb and Lu) by mechanical milling, 463
Superconductivity
curium ($Z=96$) as a probe for studying high T_C superconductivity, 13
hybridization, hole localization, and pair breaking in the high T_C superconducting system $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$, 135
structural properties and anomalous composition dependences of the superconducting transition temperature of $RE(Rh,Co)_4B_4$ alloys (RE≡Y, Er), 311
superconducting phase diagram of UPt_3, 153
Superconductors
effect of oxygen deficiency on the thermal expansion of high T_C superconductor $YBa_2Cu_3O_{7-\delta}$, 219
electrodeposition of YBaCuO and ErBaCuO superconductor precursor films, 233
peculiarities of vortex phases in rare earth superconductors, 357
the flux line lattice in high T_C superconductors, 339
thermal expansion of the heavy electron superconductor URu_2Si_2, 171
two-dimensional behavior of the rare earth ordering in oxide superconductors, 419
Synthesis
synthesis and structure of $AEuI_3$ (A≡Rb, Cs) and AEu_2I_5 (A≡K, Rb, Cs), 511

synthesis of $TlSm_2I_5$ by a one-step procedure, 495

Terbium
correlation between structure and magnetic anisotropy in amorphous Fe–Tb alloy films, 431
magnetic properties and activities of Pt–Tb/γ-Al_2O_3 re-forming catalysts, 521
magnetic susceptibility and its anomalies in single-crystal and polycrystalline gadolinium, terbium and dysprosium in the temperature range 300–800 K, 275
magnetization and thermoremanent magnetization of $Tb_2Mo_2O_7$ and $Y_2Mo_2O_7$ spin glasses, 281

Thallium
synthesis of $TlSm_2I_5$ by a one-step procedure, 495

Thermal expansion
thermal expansion of the heavy electron superconductor URu_2Si_2, 171

Thorium
effect of oxygen deficiency on transport properties of $Nd_{1.85}Th_{0.15}CuO_{4-\delta}$, 299

Thulium
preparation of the metastable high pressure γ-R_2S_3 phase (R≡Er, Tm, Yb and Lu) by mechanical milling, 463

Tin
high resolution photoemission on UPdSn and UNiAl, 205
pressure dependence of the Curie temperature in the Kondo lattice compound YbNiSn, 197

Transition metal films
magnetic properties of ferimagnetic rare-earth-transition-metal films and multilayers, 409

Transition metals
high field magnetization of R_2T_{17} compounds, 95

Uranium
anisotropic hybridization in some cerium and uranium compounds with hexagonal ZrNiAl-type structure, 111
anisotropy of the physical properties of uniaxial antiferromagnetic USb_2, 267
determination of uranium isotopes in a complex matrix by optical spectroscopy, 57
doping and pressure study of $U_3Sb_4Pt_3$, 77
high resolution photoemission on UPdSn and UNiAl, 205
high-temperature fluorination studies of uranium, neptunium, plutonium and americium, 23
observation of the two-channel quadrupolar Kondo effect in $Y_{1-x}U_xPd_3$, 327
structure and magnetic properties of the $UFe_xCu_{4-x}Al_8$ system, 249
superconducting phase diagram of UPt_3, 153
the effect of pressure on the Néel temperature of URu_2Si_2, 71

Vortex phases
peculiarities of vortex phases in rare earth superconductors, 357

Ytterbium
preparation of the metastable high pressure γ-R_2S_3 phase (R≡Er, Tm, Yb and Lu) by mechanical milling, 463
pressure dependence of the Curie temperature in the Kondo lattice compound YbNiSn, 197
the Yb_2O_3– and Lu_2O_3–$BaO(BaCO_3)$–CuO system: compounds and phase compatibilities in air at 940–980 °C, 445

Yttrium
effect of oxygen deficiency on the thermal expansion of high T_C superconductor $YBa_2Cu_3O_{7-\delta}$, 219
electrodeposition of YBaCuO and Er-BaCuO superconductor precursor films, 233
magnetization and thermoremanent magnetization of $Tb_2Mo_2O_7$ and $Y_2Mo_2O_7$ spin glasses, 281
observation of the two-channel quadrupolar Kondo effect in $Y_{1-x}U_xPd_3$, 327
structural properties and anomalous composition dependences of the superconducting transition temperature of $RE(Rh,Co)_4B_4$ alloys (RE≡Y, Er), 311

Zirconium
anisotropic hybridization in some cerium and uranium compounds with hexagonal ZrNiAl-type structure, 111